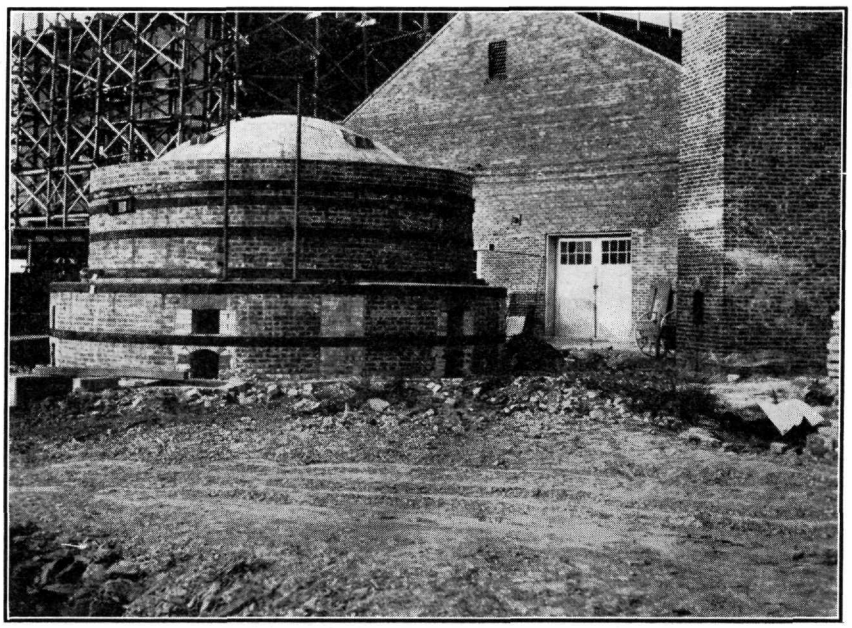

THE SYMBOL OF CERAMIC ACTIVITY

# ENGINEERING ABSTRACTS

## 1930 EARNINGS OF MECHANICAL ENGINEERS

This is the third of a series of articles on the subject by the A.S.M.E. As in the November issue of *Mechanical Engineering*, this article consists solely of the charts constructed from the answers received by the Society to their questionnaire sent to the members. The Charts are arranged as follows:

Median Earnings by Type of Industry
Salary Boundaries in Machinery Manufacturing Industries
Salary Boundaries in Power Machinery Manufacturing
Salary Boundaries in Non-Metal Industries
Salary Boundaries in Chemical Manufacturing Industries
Salary Boundaries in Public Utilities
Distribution of Mechanical Engineers by Technical Functions
Distribution of Mechanical Engineers among Types of Work by Age Groups
Median Earnings by Type of Work
Salary Boundaries of Members in Research and Design
Salary Boundaries of Members in Technical Operation
Salary Boundaries of Members in Consulting Work
Salary Boundaries of Members in General Management
Salary Boundaries of Members in Buying and Selling
Salary Boundaries of Members in Educational Work
Salary Boundaries of Members in Managerial and Non-Managerial Positions
Distribution of Members between Managerial and Non-Managerial Positions
Distribution of Members by Age Groups between Managerial and Non-Managerial Positions
Median Earnings of Members in Different Types of Managerial Positions
Median Earnings of Members in Different Types of Non-Managerial Positions
Salary Boundaries of Members in Industrial Management Compared with General Professional Standards
Salary Boundaries of Members in "Industrial Technique" Compared with General Professional Standards.

—*Mechanical Engineering*, December, 1931.

## TECHNOLOGICAL PROGRESS IN 1931

THE December issue of *Mechanical Engineering* contains a brief survey of the progress reports of the A.S.M.E. professional divisions during 1931. The following is a list of the subjects covered. These reports are recommended to interested students.

Aeronautics
- Naval Aviation
- Military Aeronautic Development
- Airports and Airways
- Aircraft Engine Progress
- Air Transport
- Airships
- Progress in Aerodynamics
- Aircraft Design and Construction

Applied Mechanics
- Theory of Elasticity
- Vibration
- Mechanics of Materials
- Thermodynamics
- Hydrodynamics and Aerodynamics
- Lubrication

Fuels and Fuel Utilization
- Coal Production

- Oil
- Gas
- Power Generation
- Industrial Fuel Utilization

Hydraulics
- Increase in Capacity and Efficiency of Hydraulic Prime Movers
- Model Testing and Laboratory Investigation
- Improvement in Speed and Reliability
- Combined Hydro and Steam Power
- Progress in Valve Equipment

Iron and Steel Industry
- Metallurgical Progress
- Testing
- Furnaces
- Heat Treatment
- Materials for High Temperature Service
- New Materials
- Sheet Mills
- Tubes
- Miscellaneous

Machine Shop Practice
- Advance in Milling Machine Design
- Grinding Machines
- Improvement in Processes

Industrial Management
- General Economic Aspects of 1931
- Marketing
- Production Control
- The Employment Situation
- Administration and Organization
- Personnel
- Wages
- Job Standardization
- Research
- Education in Industrial Engineering

Materials Handling
- Electric Trucks
- Loaders, Conveyors, and Apron Feeders
- Cupola Charger and Pipe Handling Unit
- Hand Lift Trucks
- Electric Hoists
- Chain Hoists
- Tramrail and Cranes
- Roller Conveyors
- Automatic Two-Way Switch
- New Shipping Container Offering Bin-to-Bin Delivery

Oil and Gas Power
- Stationary Oil Engines
- Marine Oil Engines
- Automotive Oil Engines
- Aircraft Oil Engines
- Locomotive Oil Engines
- Naval Oil Engines
- Materials and Progress
- Research
- Penn State College

*(Continued on Page 24)*

The Oil Industry
- Oil Refining
- Petroleum Production
- Petroleum Transportation
- Lubrication Engineering

The Printing Industries

Railroad Mechanical Engineering
- Motive Power
- Rolling Stock—Freight Cars
- Rolling Stock—Passenger Cars
- Development Work on the German National Railway

Steam-Power Engineering
- Pressure and Temperature
- Mercury Vapor
- Diphenyl Oxide
- Availability
- Fuel Economy
- Boilers and Furnaces
- Fuel Burning Equipment
- Superheaters
- Economizers and Air Preheaters
- Boiler-Feed Pumps
- Condensate and Drip Pumps
- Feedwater Heaters
- Evaporators
- Turbine Generators
- Condensers
- Out-of-Door Construction
- Piping
- Research

The Textile Industry
- Cotton
- Wool
- Finishing Plants
- Dyehouse Machinery
- Silk
- Knitting

The Wood Industries
- Consumption of Wood
- Processing of Wood
- Manufacturing and Machinery

—J. E. B.

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They tell us of the blushing bride,
Who to the altar goes;
Down the center of the church,
Between the friend-filled rows.
There's Bill, whom she motored with,
And Bob, with whom she swam;
There's Jack, she used to golf with him,
And Steve, who called her lamb.
There's Ted, the football man she owned,
And Don, of tennis days;
There's Hubert; yes, and blond Eugene,
Who had such winning ways.
And then there's Harry, high-school beau,
With whom she used to mush;
No wonder she's a blushing bride,
Ye gods! She ought to blush.

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ABSTRACTS

*(Continued from Page 19)*

National Advisory Committee for Aeronautics

Gas Engines

Gas Turbines